

American Journal of Physiology: Endocrinology and Metabolism

No. 1. JULY 1994

- Stimulation of trabecular bone formation by insulin-like growth factor I in adult ovariectomized rats
K. Mueller, R. Cortesi, D. Modrowski, and P. J. Marie E1
- Effects of flow and contraction on lactate transport in the perfused rat hindlimb
P. W. Watt, L. B. Gladden, H. S. Hundal, and R. E. Crawford E7
- Phenylarsine oxide inhibits insulin-stimulated protein phosphatase 1 activity and GLUT-4 translocation
N. Begum E14
- P_i transport regulation by chicken growth plate chondrocytes
C. Montessuit, J.-P. Bonjour, and J. Caverzasio E24
- Lesions of hypothalamic paraventricular nuclei do not prevent the effect of estradiol on energy and fat balance
A. Dagnault and D. Richard E32
- 14-kDa ubiquitin-conjugating enzyme: structure of the rat gene and regulation upon fasting and by insulin
S. S. Wing and D. Banville E39
- Contribution of central and peripheral adrenergic stimulation to IL-1 α -mediated glucoregulation
F. Petit, A. Jarrous, R. D. Dickinson, P. E. Molina, N. N. Abumrad, and C. H. Lang E49
- Melatonin prevents the suppression of cardiac Ca²⁺-stimulated ATPase activity induced by alloxan
L.-D. Chen, P. Kumar, R. J. Reiter, D.-X. Tan, L. C. Manchester, J. P. Chambers, B. Poeggeler, and S. Saarela E57
- Effects of exercise on protein synthesis and myosin heavy chain gene expression in hypothyroid rats
H. L. Katzeff, K. M. Ojamaa, and I. Klein E63
- Human placenta makes extracellular glutathione peroxidase and secretes it into maternal circulation
N. Avissar, C. Eisenmann, J. G. Breen, S. Horowitz, R. K. Miller, and H. J. Cohen E68
- [Ca²⁺]_i signaling in pregnant human myometrium
S. E. Szal, J. T. Repke, E. W. Seely, S. W. Graves, C. A. Parker, and K. G. Morgan E77
- GLUT-1 and GLUT-2 mRNA, protein, and glucose transporter activity in cultured fetal and adult hepatocytes
L. L. Levitsky, Q. Zheng, K. Mink, and D. B. Rhoads E88
- Lipid abnormalities in tissues of the KKA^y mouse: effects of pioglitazone on malonyl-CoA and diacylglycerol
A. K. Saha, T. G. Kurowski, J. R. Colca, and N. B. Ruderman E95
- Response of protein synthesis in human skeletal muscle to insulin: an investigation with L-[³H₅]phenylalanine
M. A. McNurlan, P. Essén, A. Thorell, A. G. Calder, S. E. Anderson, O. Ljungqvist, A. Sandgren, I. Grant, I. Tjäder, P. E. Ballmer, J. Wernerman, and P. J. Garlick E102
- Sleep endocrine effects of antigluco- and antimineralocorticoids in healthy males
K. Wiedemann, C. Lauer, T. Pollmächer, and F. Holsboer E109
- Dexamethasone potentiates IGF-I actions in porcine granulosa cells
R. J. Urban, Y. H. Bodenbun, M. Nagamani, and J. Peirce E115
- Blood-brain barrier transport of neuropeptides: analysis with a metabolically stable dermorphin analogue
A. Samii, U. Bickel, U. Stroth, and W. M. Pardridge E124

GLUT-4 degradation rate: reduction in rat adipocytes in fasting and streptozotocin-induced diabetes <i>S.-S. Kim, J. W. Bae, and C. Y. Jung</i>	E132
Fasting and postprandial phenylalanine and leucine kinetics in liver cirrhosis <i>P. Tessari, S. Inchiostro, R. Barazzoni, M. Zanetti, R. Orlando, G. Biolo, G. Sergi, A. Pino, and A. Tiengo</i>	E140
Placental and fetal serine fluxes at midgestation in the fetal lamb <i>R. R. Moores, Jr., B. S. Carter, G. Meschia, P. V. Fennessey, and F. C. Battaglia</i>	E150
Direct plasma radioimmunoassay for rat amylin-(1—37): concentrations with acquired and genetic obesity <i>T. R. Pieber, J. Roitelman, Y. Lee, K. L. Luskey, and D. T. Stein</i>	E156

MODELING IN PHYSIOLOGY

A compartmental model of zinc metabolism in adult men used to study effects of three levels of dietary copper <i>K. C. Scott and J. R. Turnlund</i>	E165
Measurement of pyruvate and lactate kinetics across the hindlimb and gut of anesthetized dogs <i>D. L. Chinkes, X.-J. Zhang, J. A. Romijn, Y. Sakurai, and R. R. Wolfe</i>	E174

RAPID COMMUNICATION

Chloroquine reduces whole body proteolysis in humans <i>P. De Feo, E. Volpi, P. Lucidi, G. Cruciani, F. Santeusano, G. B. Bolli, and P. Brunetti</i>	E183
---	------

No. 2. AUGUST 1994

INVITED REVIEW

Hemodynamic actions of insulin <i>A. D. Baron</i>	E187
Precursor pools of protein synthesis: a stable isotope study in a swine model <i>P. Q. Baumann, W. S. Stirewalt, B. D. O'Rourke, D. Howard, and K. S. Nair</i>	E203
Muscle glycconeogenesis during recovery from a prolonged swim in rats <i>C. Ryan and J. Radziuk</i>	E210
Impaired cardiac performance in GH-deficient adults and its improvement after GH replacement <i>A. Cittadini, A. Cuocolo, B. Merola, S. Fazio, D. Sabatini, E. Nicolai, A. Colao, S. Longobardi, G. Lombardi, and L. Saccà</i>	E219
Growth hormone and parathyroid hormone stimulate IGFBP-3 in rat osteoblasts <i>C. Schmid, I. Schläpfer, M. Peter, M. Böni-Schnetzler, J. Schwander, J. Zapf, and E. R. Froesch</i>	E226
Chemical specificity of short-chain fatty acids in stimulating insulin and glucagon secretion in sheep <i>H. Mineo, Y. Hashizume, Y. Hanaki, K. Murata, H. Maeda, T. Onaga, S. Kato, and N. Yanaihara</i>	E234
Endothelin-1 conversion and receptor characterization in human placental arteries <i>B. M. Wilkes, C. M. Macica, and P. F. Mento</i>	E242
Alterations in pulsatile insulin secretion in the Zucker diabetic fatty rat <i>J. Sturis, W. L. Pugh, J. Tang, D. M. Ostrega, J. S. Polonsky, and K. S. Polonsky</i>	E250
Differential expression of angiotensin receptor 1A and 1B in mouse <i>J. M. Burson, G. Aguilera, K. W. Gross, and C. D. Sigmund</i>	E260
Type I (mineralocorticoid) receptors in the guinea pig <i>K. Myles and J. W. Funder</i>	E268

Substrate cycling between pyruvate and oxaloacetate in awake normal and 3,3'-5-triiodo-L-thyronine-treated rats <i>K. F. Petersen, G. W. Cline, J. B. Blair, and G. I. Shulman</i>	E273
Expression of the genes for insulin-like growth factors and their receptors in bone during skeletal growth <i>D. D. Bikle, J. Harris, B. P. Halloran, C. T. Roberts, D. Leroith, and E. Morey-Holton</i>	E278
Indomethacin has distinct early and late actions on bone formation induced by mechanical stimulation <i>J. W. M. Chow and T. J. Chambers</i>	E287
Interaction of insulin and somatotropin on body weight gain, feed intake, and body composition in rats <i>T. J. Roberts, M. J. Azain, G. J. Hausman, and R. J. Martin</i>	E293
Islet amyloid polypeptide inhibits insulin secretion in conscious rats <i>C. Fürnsinn, H. Leuvenink, M. Roden, P. Nowotny, B. Schneider, M. Rohac, T. Pieber, M. Clodi, and W. Waldhäusl</i>	E300
β -Adrenergic stimulation of energy expenditure and forearm skeletal muscle metabolism in lean and obese men <i>E. E. Blaak, M. A. van Baak, G. J. Kemerink, M. T. W. Pakbiers, G. A. K. Heidendal, and W. H. M. Saris</i>	E306
β -Adrenergic stimulation of skeletal muscle metabolism in relation to weight reduction in obese men <i>E. E. Blaak, M. A. van Baak, G. J. Kemerink, M. T. W. Pakbiers, G. A. K. Heidendal, and W. H. M. Saris</i>	E316
P_2 -purinergic stimulation of iodide efflux in FRTL-5 rat thyroid cells involves parallel activation of PLC and PLA_2 <i>R. C. Smallridge and I. D. Gist</i>	E323

RAPID COMMUNICATIONS

Insulin-like growth factor I exerts growth hormone- and insulin-like actions on human muscle protein metabolism <i>D. A. Fryburg</i>	E331
Effect of insulin on rat heart and skeletal muscle phenylalanyl-tRNA labeling and protein synthesis in vivo <i>L. H. Young, W. Stirewalt, P. H. McNulty, J. H. Revkin, and E. J. Barrett</i>	E337

No. 3. SEPTEMBER 1994

INVITED REVIEW

Regulation of cell function by the cellular hydration state <i>D. Häussinger, F. Lang, and W. Gerok</i>	E343
--	------

Immunohistochemical localization of the $1,25(OH)_2D_3$ receptor and calbindin D_{28k} in human and rat pancreas <i>J. A. Johnson, J. P. Grande, P. C. Roche, and R. Kumar</i>	E356
Time-dependent regulation by insulin of leucine metabolism in young healthy adults <i>A. S. Petrides, L. Luzi, and R. A. DeFronzo</i>	E361
Insulin's effect on protein kinase C and diacylglycerol induced by diabetes and glucose in vascular tissues <i>T. Inoguchi, P. Xia, M. Kunisaki, S. Higashi, E. P. Feener, and G. L. King</i>	E369
Simplified measurement of norepinephrine kinetics: application to studies of aging and exercise training <i>J. C. Marker, P. E. Cryer, and W. E. Clutter</i>	E380
Enzymatic and genetic adaptation of soleus muscle mitochondria to physical training in rats <i>T. Murakami, Y. Shimomura, N. Fujitsuka, N. Nakai, S. Sugiyama, T. Ozawa, M. Sokabe, S. Horai, K. Tokuyama, and M. Suzuki</i>	E388

IGF-I and IGF-binding protein gene expressions in spontaneous dwarf rat <i>H. Nogami, T. Watanabe, and S. Kobayashi</i>	E396
Effects of physiological hyperinsulinemia on counterregulatory response to prolonged hypoglycemia in normal humans <i>S. N. Davis, C. Shavers, L. Collins, A. D. Cherrington, L. Price, and C. Hedstrom</i>	E402
Sensitivity of exercise-induced increase in hepatic glucose production to glucose supply and demand <i>C. M. Berger, P. J. Sharis, D. P. Bracy, D. B. Lacy, and D. H. Wasserman</i>	E411
Increased leucine flux and leucine oxidation during the luteal phase of the menstrual cycle in women <i>F. Lariviere, R. Moussalli, and D. R. Garrel</i>	E422
Stimulus-secretion coupling in parathyroid cells deficient in protein kinase C activity <i>F. K. Racke and E. F. Nemeth</i>	E429
Evidence for a sustained genetic effect on fat storage capacity in cultured adipose cells from Zucker rats <i>V. Briquet-Laugier, I. Dugail, B. Ardouin, X. Le Liepvre, M. Lavau, and A. Quignard-Boulangé</i>	E439
Effects of substance P on adrenal responses to acetylcholine in conscious calves <i>A. V. Edwards and C. T. Jones</i>	E447
Effect of growth hormone on hepatic glucose and insulin metabolism after oral glucose in conscious dogs <i>Y. Okuda, J. Peña, J. Chou, and J. B. Field</i>	E454
Comparative effects of IGF-I and insulin on the glucose transporter system in rat muscle <i>S. Lund, A. Flyvbjerg, G. D. Holman, F. S. Larsen, O. Pedersen, and O. Schmitz</i>	E461
Protein synthesis and breakdown in skin and muscle: a leg model of amino acid kinetics <i>G. Biolo, A. Gastaldelli, X.-J. Zhang, and R. R. Wolfe</i>	E467
Anabolic effects of the β_2 -adrenoceptor agonist salmeterol are dependent on route of administration <i>N. G. Moore, G. G. Pegg, and M. N. Silence</i>	E475

No. 4. OCTOBER 1994

EDITORIAL

A retrospective on the modeling methodology forum. The review process for modeling papers: a revisionist's experiences and perspectives <i>J. J. DiStefano III</i>	E485
---	------

Release of gastric inhibitory polypeptide from cultured canine endocrine cells <i>T. J. Kieffer, A. M. J. Buchan, H. Barker, J. C. Brown, and R. A. Pederson</i>	E489
Hypoglycemia counterregulation in elderly humans: relationship to glucose levels <i>F. J. Ortiz-Alonso, A. Galecki, W. H. Herman, M. J. Smith, J. A. Jacquez, and J. B. Halter</i>	E497
Placental transferrin receptor in diabetic pregnancies with increased fetal iron demand <i>C. D. Petry, J. D. Wobken, H. McKay, M. A. Eaton, V. S. Seybold, D. E. Johnson, and M. K. Georgieff</i>	E507
Enhanced adrenal renin and aldosterone biosynthesis during sodium restriction in TGR (mREN2)27 <i>S. Rubattu, I. Enea, D. Ganten, D. Salvatore, G. Condorelli, G. Condorelli, R. Russo, M. Romano, B. Gigante, B. Trimarco, and M. Volpe</i>	E515
Cortisol feedback regulation of pulsatile ACTH secretion in fetal sheep during late gestation <i>E. M. Apostolakis, L. D. Longo, and S. M. Yellon</i>	E521

- Loss of fatty acid control of gluconeogenesis and PDH complex flux in adrenalectomized rats
G. Ciprés, E. Urcelay, N. Butta, M. S. Ayuso, R. Parrilla, and A. Martín-Requero E528
- Plasma and platelet catecholamine and catecholamine sulfate response to various exercise tests
G. Strobel, B. Friedmann, J. Jost, and P. Bärtsch E537
- Effect of needle biopsy from the vastus lateralis muscle on insulin-stimulated glucose metabolism in humans
P. Holck, N. Pørksen, M. F. Nielsen, B. Nyholm, J. F. Bak, F. Andreassen, N. Møller, and O. Schmitz E544
- Evidence for an abnormal postprandial response to a high-fat meal in women predisposed to obesity
A. Raben, H. B. Andersen, N. J. Christensen, J. Madsen, J. J. Holst, and A. Astrup E549
- Altered lipid kinetics in adjuvant recombinant human growth hormone-treated multiple-trauma patients
M. Jeevanandam and S. R. Petersen E560
- VLDL production is decreased to a similar extent by acute portal vs. peripheral venous insulin
G. F. Lewis, B. Zinman, K. D. Uffelman, L. Szeto, B. Weller, and G. Steiner E566
- Insulinotropic action of glutamic acid dimethyl ester
A. Sener, I. Conget, J. Rasschaert, V. Leclercq-Meyer, M. L. Villanueva-Peñacarrillo, I. Valverde, and W. J. Malaisse E573
- Relative dilution spaces of ^2H - and ^{18}O -labeled water in humans
S. B. Racette, D. A. Schoeller, A. H. Luke, K. Shay, J. Hnilicka, and R. F. Kushner E585
- Use of a leucine clamp to demonstrate that IGF-I actively stimulates protein synthesis in normal humans
D. L. Russell-Jones, A. M. Umpleby, T. R. Hennessy, S. B. Bowes, F. Shojaae-Moradie, K. D. Hopkins, N. C. Jackson, J. M. Kelly, R. H. Jones, and P. H. Sönksen E591
- Postprandial myofibrillar and whole body protein synthesis in young and old human subjects
S. Welle, C. Thornton, M. Statt, and B. McHenry E599
- Altered expression of GLUT-1 and GLUT-3 glucose transporters in neurohypophysis of water-deprived or diabetic rats
S. J. Vannucci, F. Maher, E. Koehler, and I. A. Simpson E605
- Expression of components of the RAS during prolonged blockade at different levels in primates
N. J. Samani, F. Cumin, M. Kelly, and J. M. Wood E612
- Postprandial modulation of lipoprotein lipase in rats with insulin resistance
A. Boivin, I. Montplaisir, and Y. Deshaies E620

MODELING IN PHYSIOLOGY

- Winds of change: current focus of the Modeling in Physiology department
M. A. F. Epstein E628

No. 5. NOVEMBER 1994

INVITED REVIEW

- Molecular pathophysiology of glucagon-SV40 T antigen transgenic mice
D. J. Drucker E629

-
- Interleukin-1 receptor antagonist prevents sepsis-induced inhibition of protein synthesis
R. Cooney, E. Owens, C. Jurasinski, K. Gray, J. Vannice, and T. Vary E636

- Effect of ouabain on pressor responsiveness in normal man
*G. B. Pidgeon, A. M. Richards, M. G. Nicholls, R. R. Bailey, K. L. Lynn,
L. K. Lewis, and T. G. Yandle* E642
- Renal oxygen consumption, thermogenesis, and amino acid utilization during iv infusion of amino acids in man
T. Brundin and J. Wahren E648
- Induction of secretogranin II mRNA by protein synthesis inhibitors in GH₄C₁ cells
J. G. Scammell and D. L. Valentine E656
- Inhibition of pancreatic proglucagon gene expression in mice bearing subcutaneous endocrine tumors
P. Ehrlich, D. Tucker, S. L. Asa, P. L. Brubaker, and D. J. Drucker E662
- Aromatic amino acid metabolism of neonatal piglets receiving TPN: effect of tyrosine precursors
L. J. Wykes, J. D. House, R. O. Ball, and P. B. Pencharz E672
- Role of norepinephrine in hepatic gluconeogenesis: evidence of aging and training effects
D. A. Podolin, T. T. Gleeson, and R. S. Mazzeo E680
- Perinatal ontogeny of porcine nuclear thyroid hormone receptors and its modulation by thyroid status
C. Duchamp, K. A. Burton, P. Herpin, and M. J. Dauncey E687
- Effects of energy restriction on acute adrenoceptor and metabolic responses to exercise in obese subjects
*K. P. G. Kempen, W. H. M. Saris, J. M. G. Senden, P. P. C. A. Menheere,
E. E. Blaak, and M. A. van Baak* E694
- Dynorphin binds to neuropeptide Y and peptide YY receptors in human neuroblastoma cell lines
*M. Miura, A. Inui, K. Sano, N. Ueno, A. Teranishi, Y. Hirose, M. Nakajima,
M. Okita, J. Togami, K. Koshiya, S. Baba, and M. Kasuga* E702
- Effects of infused fructose on endogenous glucose production, gluconeogenesis, and glycogen metabolism
P. Tounian, P. Schneider, S. Henry, E. Jéquier, and L. Tappy E710
- Characterization, expression, and hormonal control of a thymic β_2 -adrenergic receptor
B. Marchetti, M. C. Morale, P. Paradis, and M. Bouvier E718
- Relationship between sleep stages and metabolic rate in humans
A. M. Fontvieille, R. Rosing, M. Spraul, D. E. Larson, and E. Ravussin E732
- Differential effects of GLUT-1 or GLUT-4 overexpression on insulin responsiveness in transgenic mice
B. A. Marshall and M. M. Mueckler E738
- Regulation of ACE gene expression and plasma levels during rat postnatal development
O. Costerousse, J. Allegrini, H. Huang, J. Bounhik, and F. Alhenc-Gelas E745
- Effect of central amiloride infusion on mineralocorticoid hypertension
E. P. Gomez-Sanchez and C. E. Gomez-Sanchez E754
- Convolution: a method for data analysis in perfusion systems
R. M. Brand, A. R. Midgley, and W. J. Williams E759
- Metabolic regulation of intracellular calcium concentration in mouse pancreatic islets of Langerhans
A. Nadal, M. Valdeolmillos, and B. Soria E769
- Effects of glucose-to-lipid ratio and type of lipid on substrate oxidation rate in patients
*B. Delafosse, J. P. Viale, S. Tissot, S. Normand, C. Pachiaudi, J. Goudable,
Y. Bouffard, G. Annat, and O. Bertrand* E775
- Stimulation of prolactin release by dopamine withdrawal: role of membrane hyperpolarization
K. A. Gregerson, N. Golesorkhi, and R. Chuknyiska E781
- Stimulation of prolactin release by dopamine withdrawal: role of calcium influx
K. A. Gregerson, R. Chuknyiska, and N. Golesorkhi E789

MODELING IN PHYSIOLOGY

- Stochastic modeling of the hypothalamic pulse generator activity
A.-C. Camproux, J.-C. Thalabard, and G. Thomas

E795

RAPID COMMUNICATION

- Paraxanthine (metabolite of caffeine) mimics caffeine's interaction with sympathetic control of thermogenesis

A. G. Dulloo, J. Seydoux, and L. Girardier

E801

No. 6. DECEMBER 1994

INVITED EDITORIAL

- Revision of calculations in the doubly labeled water method for measurement of energy expenditure in humans

W. A. Coward, P. Ritz, and T. J. Cole

E805

-
- Impaired glucose transport in skeletal muscle but normal GLUT-4 tissue distribution in glucose-infused rats

M. B. Davidson, C. Bouch, N. Venkatesan, and R. G. Karjala

E808

- Roles of uptake₁ and catechol-O-methyltransferase in removal of circulating catecholamines in the rabbit

B. Friedgen, T. Halbrügge, and K.-H. Graefe

E814

- Altered skeletal pattern of gene expression in response to spaceflight and hindlimb elevation

D. D. Bikle, J. Harris, B. P. Halloran, and E. Morey-Holton

E822

- Ontogeny of the two angiotensin II type 1 receptor subtypes in rats

S. Shanmugam, P. Corvol, and J.-M. Gasc

E828

- Calcium uptake by chorioallantoic membrane: effects of vitamins D and K

M. A. Elaroussi and H. F. DeLuca

E837

- Endothelin-1 modulates renin and prolactin release from human decidua by different mechanisms

H.-S. Chao, A. M. Poisner, R. Poisner, and S. Handwerker

E842

- Pancreatic endocrine responses to substance P and calcitonin gene-related peptide in conscious calves

A. V. Edwards and S. R. Bloom

E847

- 5 α -Dihydrotestosterone partially restores cancellous bone volume in osteopenic ovariectomized rats

J. H. Tobias, A. Gallagher, and T. J. Chambers

E853

- Thyroxine and 3,5,3'-triiodothyronine production, metabolism, and distribution in pregnant rat near term

P. M. Versloot, J. Gerritsen, L. Boogerd, J. P. Schröder-Van Der Elst, and D. Van Der Heide

E860

- Role of interleukin-6 and prostaglandins in the effect of monocyte-conditioned medium on osteoclast formation

M. Kanatani, T. Sugimoto, M. Fukase, and K. Chihara

E868

- Effect of hyperinsulinemia and hyperaminoacidemia on muscle and liver protein synthesis in lactating goats

I. Tauveron, D. Larbaud, C. Champredon, E. Debras, S. Tesseraud, G. Bayle, Y. Bonnet, P. Thiéblot, and J. Grizard

E877

- Acute alcohol administration attenuates insulin-mediated glucose use by skeletal muscle

Z. Spolarics, G. J. Bagby, P. H. Pekala, C. Dobrescu, N. Skrepnik, and J. J. Spitzer

E886

- Regional variations in metabolic responses of white adipose tissue to food restriction

M. C. Sugden, R. M. Grimshaw, H. Lall, and M. J. Holness

E892

- Kinetic analysis of glycogen synthase and PDC in cirrhotic rat liver and skeletal muscle

M. G. Giardina, M. Matarazzo, and L. Saccà

E900

Leucine kinetics are different during feeding with whole protein or oligopeptides <i>C. Collin-Vidal, M. Cayol, C. Obled, F. Ziegler, G. Bommelaer, and B. Beaufrere</i>	E907
Changes in regional protein synthesis in rat brain and pituitary after systemic interleukin-1 β administration <i>L. M. Williams, P. E. Ballmer, L. T. Hannah, I. Grant, and P. J. Garlick</i>	E915
Mineralocorticoid antagonist inhibits stress-induced blood pressure response after repeated daily warming <i>D. T. W. M. Van den Berg, W. de Jong, and E. R. de Kloet</i>	E921
Central effects of mineralocorticoid antagonist RU-28318 on blood pressure of DOCA-salt hypertensive rats <i>D. T. W. M. Van den Berg, E. R. de Kloet, and W. de Jong</i>	E927
Fat metabolism during low-intensity exercise in endurance-trained and untrained men <i>S. Klein, E. F. Coyle, and R. R. Wolfe</i>	E934
Effect of antilipolysis on heart and skeletal muscle glucose uptake in overnight fasted humans <i>P. Nuutila, M. J. Knuuti, M. Raitakari, U. Ruotsalainen, M. Teräs, L.-M. Voipio-Pulkki, M. Haaparanta, O. Solin, U. Wegelius, and H. Yki-Järvinen</i>	E941
Sympathetically and nonsympathetically mediated onset of excess fat deposition in Zucker rats <i>G. Körtner, O. Petrova, S. Vogt, and I. Schmidt</i>	E947
cAPK mediates placental renin secretion stimulated by β -adrenoceptor activation <i>G. J. Downing and A. M. Poisner</i>	E954
Calcitriol therapy and calcium-regulated PTH secretion in patients with secondary hyperparathyroidism <i>J. A. Ramirez, W. G. Goodman, T. R. Belin, B. Gales, G. V. Segre, and I. B. Salusky</i>	E961
Post-GLUT-2 defects in β -cells of non-insulin-dependent diabetic obese rats <i>M. Ohneda, J. H. Johnson, Y. H. Lee, Y. Nagasawa, and R. H. Unger</i>	E968
Effects of a fish oil-lard diet on rat plasma lipoproteins, liver FAS, and lipolytic enzymes <i>F. Benhizia, I. Hainault, C. Serougne, D. Lagrange, E. Hajdich, C. Guichard, M.-I. Malewiak, A. Quignard-Boulangé, M. Lavau, and S. Griglio</i>	E975
Effects of thyroid hormone deiodination on regulation of thyroid axis in undernourished rats <i>A. M. Pascual-Leone, C. Aláez, R. Calvo, M. A. Martín, and M. J. Obregón</i>	E983
Modulation of growth factor incorporation into ECM of human osteoblast-like cells in vitro by 17 β -estradiol <i>M. Slater, J. Patava, K. Kingham, and R. S. Mason</i>	E990
A new method for the estimation of the components of energy expenditure in patients with major trauma <i>G. Franch-Arcas, L. D. Plank, D. N. Monk, R. Gupta, K. Maher, L. Gillanders, and G. L. Hill</i>	E1002
Branched-chain amino acids augment ammonia metabolism while attenuating protein breakdown during exercise <i>D. A. MacLean, T. E. Graham, and B. Saltin</i>	E1010
Metabolic interactions between surplus dietary energy intake and cigarette smoking or its cessation <i>R. A. Neese, N. L. Benowitz, R. Hoh, D. Faix, A. LaBua, K. Pun, and M. K. Hellerstein</i>	E1023

LETTERS TO THE EDITOR

Microdialysis and vein catheterization <i>P. Lönnroth, P.-A. Jansson, and U. Smith</i>	E1035
---	-------

<i>Subject Index to Volume 30</i>	E1037
<i>Author Index to Volume 30</i>	E1045

